



TO: ALL REGENCY COMMUNICATIONS PROFESSIONAL SALES & SERVICE CENTERS  
ALL REGENCY COMMUNICATIONS PROFESSIONAL SALES REPRESENTATIVES

MODELS AFFECTED: XLU152, XLU1515

PROBLEM:-

1. Radios which exhibit poor TX hum and noise or voice intelligibility when operated in a vehicle which has the motor running.
2. Radios which have excessive or distorted CTCSS tone deviation as a result of "tone feedthrough".

CURE: The following sets of modifications should be performed.

- A. Power Supply Ripple Modifications (See page 2)
- B. Data Line Modifications (See page 2)

It is recommended that the radio be retuned after these changes.

TECHNICAL SERVICE DEPARTMENT  
REGENCY COMMUNICATIONS, INC.



A. POWER SUPPLY RIPPLE MODIFICATIONS (See Diagram)

1. Remove -

- a. JU500 (white wire) from topside
- b. C536 - .001 $\mu$ F from topside
- c. R415 - 1K from underside

2. Add -

- a. R539 - 22 ohm, 1W on underside of board at C541 in series with JU500 (see below)
- b. R637 - 22K from base to emitter of Q601 on underside of board
- c. C543 - 220 $\mu$ F 16V on topside in place of C536 (ensure correct polarity)
- d. C536 - .001 $\mu$ F on underside across C543
- e. CR406 - 1N4148 on underside at 4-pole helical input
- f. CR407 - 1N4148 on underside at 4-pole helical input
- g. JU500 (white wire) on underside of main board. Connect to R539 and route under chassis lip along-side JU301 to RY500, Pin 4.
- h. Add 5 ground straps using 20ga wire or braid - 3 on underside from chassis lip to main board in PA area and 2 on topside from PA shield to L403 helical can at bottom and R403 ground leg.
- i. R639 - 1K on underside across L600

B. DATA LINE MODIFICATIONS (See Diagram)

1. Remove -

- a. Data line auto insert pins (thus disconnecting topside data line)
- b. C635 - 15pF )
- c. JU603 - jumper ) on underside of main board
- d. C634 - 150pF )

2. Change R628 to 18K

3. Add -

- a. R638 - 18K at IC603, Pin 32 in series with data line (JU608 see below) on underside of board
- b. JU608 - insulated jumper (data line) on underside of board

PART NUMBERS

R628 - 4704-0183-032  
R638 - 4704-0183-032  
R637 - 4704-0223-032  
R639 - 4704-0102-032  
R539 - 4700-0220-045

C543 - 1513-3254-711  
CR406 - 4805-1241-200  
CR407 - 4805-1241-200  
Braid - 6011-0000-002







